

EM500-PP

Pipe Pressure Sensor



► Introduction

EM500-PP pipe pressure sensor is a long range wireless sensor compatible with standard LoRaWAN protocol. Combining with the advanced LoRa technology and 19000mAh battery make it a low power consumption product with years-long use life. It is designed to measure the pressure of water/oil/gas of multiple types of pipes and it is the fundamental component of a leak detection system.

► Features

- Up to 11km communication range
- High efficiency lightning-protection, anti-radio frequency and electromagnetic interference protection
- Corrosion resistance, vibration resistance and wide operating temperature
- High precision with temperature compensation
- Standard LoRaWAN protocol
- Easy configuration via NFC
- Ursalink Cloud and third-party platform compliant
- Low power consumption with 19000 mAh replaceable battery
- 1-Year Warranty Included

► Applications

- ✓ Pressure monitoring in pipelines and tanks
- ✓ Oil & Gas monitoring
- ✓ Leak detection
- ✓ Level/depth monitoring in tanks and cisterns

► Specifications

Model	EM500-PP
Measurement	
Pressure Type	Gauge Pressure
Range	0~1600 kPa(16 Bar)
Accuracy	±0.5% FS
Resolution	1 kPa(0.01 Bar)
Overload	150% FS
Long-term Stability	±0.3% FS/year
Process Connection	G 1/4" Female
LoRaWAN	
Frequency	EU433/CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A
Antenna	Integrated ceramic antenna
Physical Characteristics	
Cable Length	1.5m

Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)
Operating Temperature	Transceiver: -30°C to +70°C Pressure Sensor: -30°C to +80°C
Ingress Protection	Transceiver—IP66 (IP67 as required) Pressure Sensor—IP65
Dimension	105.4 × 71 × 69.5 mm (Waterproof connector and sensor are not included)
Mounting	Pole, wall, DIN rail
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP or PC software via NFC, USB Type-C

► Order Information

Model	Measuring Range
EM500-PP-G1/4F-4780	0~1600kPa, G1/4" Female

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